

CalESCO

CALIFORNIA EARTH SCIENCE CORPORATION

1318 SECOND STREET SUITE 27 SANTA MONICA CALIFORNIA 90401 TELEPHONE 310-395-1518 AREA 904-213

September 5, 1974

Contract NAS 2-7698
MONTHLY PROGRESS REPORT NO. 15
August 1974

Fault Tectonics and Earthquake Hazards in the Peninsular
Ranges, Southern California, EREP Investigation 463

NASA, Ames Research Center
Mail Code 241-1
Moffett Field, CA 94035

Attention: Mr. Don McCullough

Gentlemen:

California Earth Science Corporation (CalESCO) is pleased to submit its 15th
Monthly Progress Report on the application of Skylab imagery to analysis of
fault tectonics and earthquake hazards in the Peninsular Ranges, Southern
California under NASA Contract No. NAS 207698.

Summary Outlook

The principal plans for the immediate future are to continue analysis of images
from SL1/SL2 and SL3. The milestone plan provides a time-oriented schedule of
the entire effort to be performed.

Significant Progress

1. Additional data of the test site, which was reviewed at the screening
session at JSC in July, was ordered.
2. Work is progressing on processing the SO-192 tapes. They are quite difficult
to read and re-record for use with existing digital enhancement programs and
equipment.
3. Transformation of a "pseudocolor" chart (generated photographically) was
created.
4. A program for generating a test chart by computer was written and is being
debugged.

(E74-10783) FAULT TECTONICS AND
EARTHQUAKE HAZARDS IN THE PENINSULAR
RANGES, SOUTHERN CALIFORNIA Monthly
Progress Report, Aug. 1974 (Earth Science
Research Corp.) 2 p HC \$3.25 CSCL 08E

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Expected Accomplishments, Current Month

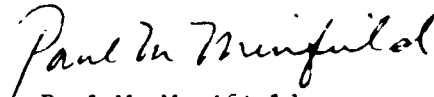
1. The computer generated test chart will be completed. It will then be used to produce numerous transformations for testing the effectiveness of pseudocolor transformations.
2. Ground truth data will be compiled for a S192 test site in the foothills of the Tehachapi Mountains.
3. Pseudocolor transformations, produced photographically, of the western Mojave Desert and Coachella Valley will be evaluated for their geologic content.

Travel Summary and Plans

None.

Very truly yours,

CALIFORNIA EARTH SCIENCE CORP.



Paul M. Merifield
Principal Investigator

cc: National Aeronautics and Space
Administration
Scientific and Technical Information Facility
Code KS
Washington, D.C. 20546

Mr. John W. Tremor
NASA, Ames Research Center
Moffett Field, CA 94035

NASA Manned Spacecraft Center
Attn: Martin Miller, Mail Code TF6
Houston, TX 77058

NASA Manned Spacecraft Center
Earth Observation Division
Attn: V. M. Dauphin, Mail Code TF
Houston, TX 77058